

WHAT IS CLAIMED IS:

1. An apparatus comprising:

(A) a vibration detection device,

(B) a blur correction device that corrects an  
5 image blur, based on output of said vibration detection  
device, and

(C) a limiting device that limits operation of  
said blur correction device based on output from said  
vibration detection device, limiting the operation  
10 based on: a first limit that is performed in a case  
where an amplitude of a vibration velocity is equal to  
or larger than a predetermined amplitude; and a second  
limit that is performed in a case where an amplitude of  
a vibration displacement is equal to or larger than a  
15 predetermined amplitude, the first limit and the second  
limit having different limiting characteristics as to a  
vibration frequency.

2. An apparatus according to Claim 1, further  
20 comprising an image sensing device that senses an  
optical subject image and converts the optical subject  
image into an image signal, wherein

based on the output of said vibration detection  
device, said blur correction device corrects blurring  
25 of the subject image appearing between the image  
signals sensed by the image sensing device at different  
times, by processing these image signals.

3. An apparatus according to Claim 1, wherein the second limit is not performed on a vibration having a predetermined frequency, but the first limit is performed on the vibration having the predetermined frequency.

4. An apparatus according to Claim 3, wherein the vibration having the predetermined frequency is a vibration equal to or larger than a predetermined frequency.

5. An apparatus according to Claim 4, wherein the apparatus includes an image sensing apparatus.

6. An apparatus comprising:  
(A) a vibration detection device,  
(B) a blur correction device that corrects an image blur, based on output of said vibration detection device, and  
(C) a limiting device that limits operation of said blur correction device in accordance with size of the vibration detected by said vibration detection device and an image sensing time.

7. An apparatus according to Claim 6, further comprising an image sensing device that senses the optical subject image and converts the optical subject

image into an image signal, wherein

based on the output from said vibration detection device, said blur correction device corrects blurring of the subject image appearing between the image  
5 signals sensed by the image sensing device at different times, by processing these image signals.

8. An apparatus according to Claim 6, wherein  
10 said limiting device performs the limit in response to increasing of the vibration detected by said vibration detection device.

9. An apparatus according to Claim 8, wherein the  
15 limiting device performs the limit in response to increasing of the image sensing time.

10. An apparatus according to Claim 6, wherein  
the limiting device performs the limit in response to increasing of image sensing time.

20 11. An apparatus according to Claim 6, wherein said limiting device performs the limit in response to amplitude size of a vibration velocity detected by said vibration detection device.

25 12. An apparatus according to Claim 6, wherein said apparatus includes an image sensing apparatus.

13. An apparatus comprising:

(A) a vibration detection device,

(B) a blur correction device that corrects an  
image blur, based on output of said vibration detection  
device,

(C) a limiting device that limits operation of  
said blur correction device in accordance with size and  
frequency of the vibration detected by said vibration  
detection device.

14. An apparatus according to Claim 13,

comprising an image sensing device that senses the  
optical subject image and converts the optical subject  
image into an image signal, wherein

based on the output from said vibration detection  
device, said blur correction device corrects the  
blurring of the subject image appearing between the  
image signals sensed by the image sensing device at  
different times, by processing these image signals.

15. An apparatus according to Claim 13, wherein

said limiting device performs the limit in response to  
increasing of the vibration detected by said vibration  
detection device.

16. An apparatus according to Claim 15, wherein

said limiting device performs the limit in response to

increasing of a frequency of the vibration detected by said vibration detection device.

17. An apparatus according to Claim 13, wherein  
5 said limiting device performs the limit in response to increasing of a frequency of the vibration detected by said vibration detection device becoming great.

18. An apparatus according to Claim 13, wherein  
10 said apparatus includes an image sensing apparatus.

19. An apparatus adapted to a blur correction device to correct an image blur based on an output of a vibration detection device, the apparatus comprising:

15 a limiting device that limits operation of said blur correction device based on output from the vibration detection device, limiting the operation based on: a first limit that is performed in a case where an amplitude of a vibration velocity is equal to  
20 or larger than a predetermined amplitude; and a second limit in a case where an amplitude of a vibration displacement is equal to or larger than a predetermined amplitude, the first limit and the second limit having  
25 different limiting characteristics as to a vibration frequency.

20. An apparatus according to Claim 19, further

comprising an image sensing device that senses an optical subject image and converts the optical subject image into an image signal, wherein

based on the output of said vibration detection device, said blur correction device corrects blurring of the subject image appearing between the image signals sensed by the image sensing device at different times, by processing these image signals.

21. An apparatus according to Claim 19, wherein the second limit is not performed on a vibration having a predetermined frequency, but the first limit is performed on the vibration having the predetermined frequency.

22. An apparatus according to Claim 19, wherein the vibration having the predetermined frequency is a vibration equal to or larger than a predetermined frequency.

23. An apparatus according to Claim 19, wherein the apparatus includes an image sensing apparatus.

24. An apparatus adapted to a blur correction device to correct an image blur based on an output of a vibration detection device, the apparatus comprising:  
a limiting device that limits operation of said

blur correction device in accordance with the size of the vibration detected by said vibration detection device and an image sensing time.

5           25. An apparatus according to Claim 24, further comprising an image sensing device that senses an optical subject image and converts the optical subject image into an image signal, wherein

10               based on the output of said vibration detection device, said blur correction device corrects blurring of the subject image appearing between the image signals sensed by the image sensing device at different times, by processing these image signals.

15           26. An apparatus according to Claim 24, wherein said limiting device performs the limit in response to increasing of the vibration detected by said vibration detection device.

20           27. An apparatus according to Claim 26, wherein the limiting device performs the limit in response to increasing of the image sensing time.

25           28. An apparatus according to Claim 24, wherein said limiting device performs the limit in response to increasing of the image sensing time.

29. An apparatus according to Claim 24, wherein said limiting device performs the limit in response to amplitude size of a vibration velocity detected by said vibration detection device.

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30. An apparatus according to Claim 24, wherein said apparatus includes an image sensing apparatus.

31. An apparatus adapted to a blur correction device to correct an image blur based on an output of a vibration detection device, the apparatus comprising:

a limiting device that limits operation of said blur correction device in accordance with size and frequency of the vibration detected by said vibration detection device.

32. An apparatus according to Claim 31, further comprising an image sensing device that senses an optical subject image and converts the optical subject image into an image signal, wherein

based on the output of said vibration detection device, said blur correction device corrects blurring of the subject image appearing between the image signals sensed by the image sensing device at different times, by processing these image signals.

33. An apparatus according to Claim 31, wherein



said limiting device performs the limit in response to increasing of the vibration detected by said vibration detection device.

5           34. An apparatus according to Claim 33, wherein said limiting device performs the limit in response to increasing of a frequency of the vibration detected by said vibration detection device.

10           35. An apparatus according to Claim 31, wherein the limiting device performs the limit in response to the frequency of the vibration detected by the vibration detection device becoming great.

15           36. An apparatus according to Claim 31, wherein said apparatus includes an image sensing apparatus.

20           37. A control method adapted to a blur correction device to correcting an image blur based on an output of a vibration detection device, the method comprising:

          limiting operation of said blur correction device based on output from the vibration detection device, limiting the operation based on: a first limit that is performed in a case where an amplitude of a vibration velocity is equal to or larger than a predetermined  
25           amplitude; and by using a second limit that is performed in a case where an amplitude of a vibration

displacement is equal to or larger than a predetermined amplitude, the first limit and the second limit having different limiting characteristics as to a vibration frequency.

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38. A control method adapted to a blur correction device to correct an image blur based on an output of a vibration detection device, the method comprising:

10 limiting operation of said blur correction device in accordance with the size of the vibration detected by said vibration detection device and an image sensing time.

15 39. A control method adapted to a blur correction device to correct an image blur based on an output of a vibration detection device, the method comprising:

limiting operation of said blur correction device in accordance with the size and frequency of the vibration detected by said vibration detection device.

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40. A computer program product adapted to a blur correction device to correct an image blur based on an output of a vibration detection device, the content of the computer program product comprising:

25 limiting operation of said blur correction device based on output from the vibration detection device, limiting the operation based on: a first limit that is

performed in a case where an amplitude of a vibration velocity is equal to or larger than a predetermined amplitude; and a second limit that is performed in a case where an amplitude of a vibration displacement is equal to or larger than a predetermined amplitude, the first limit and the second limit having different limiting characteristics as to a vibration frequency.

41. A computer program product adapted to a blur correction device to correct an image blur based on an output of a vibration detection device, the computer program product comprising:

limiting operation of said blur correction device in accordance with the size of the vibration detected by the vibration detection device and an image sensing time.

42. A computer program product adapted to a blur correction device to correct a vibration in an image based on an output of a vibration detection device, the computer program product comprising:

limiting operation of said blur correction device in accordance with the size and frequency of the vibration detected by said vibration detection device.